SONY

3-858-706

FM/AM Compact Disc Player

Operating Instructions

Owner's Record

The model and serial numbers are located on the bottom of the unit.
Record the serial number in the space provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. EXCD-206 Serial No. _____

For installation and connections, see the supplied installation/connections manual.

COMPACT disc DIGITAL AUDIO

EXCD-206

© 1996 by Sony Corporation

Table of Contents

Precautions 4
Setting the Clock 5

CD Player Operation

Playing a CD 5
Ejecting the CD 5
Locating the Beginnings of Tracks
— AMS (Automatic Music Sensor) Function 6
Locating the Desired Part of a Track
— Manual Search Function 6
Searching for the Desired Track
— Intro Scan Function 6
Playing Tracks Repeatedly
— Repeat Play Function 6
Playing Tracks in Random Order
— Shuffle Play Function 6

Radio Reception

Searching for Stations Automatically
— Automatic Tuning 7
If FM Stereo Reception is Poor
— Monaural Mode 7
Tuning in by Adjusting the Frequency
— Manual Tuning 7
Memorizing Stations Automatically
— Automatic Memory Function 7
Memorizing Only the Desired Stations 8
Receiving the Memorized Stations 8

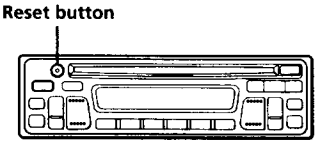
Other Functions

Adjusting the Sound Characteristics .....
Enjoying Bass and Treble at Low Volume
— Loudness Function .....
Muting the Sound Quickly
— Mute Function .....
Muting the Beep Tone .....
Turning on the Clock Display
— Power Select Function .....

Maintenance .....
Dismounting the Unit .....
Location of Controls .....
Specifications .....
Troubleshooting Guide .....

Precautions

- Before operating the unit for the first time or after replacing the car battery, press the reset button with a ball-point pen etc., then operate the unit.



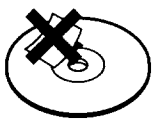
- If your car is parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers in 2-speaker systems, set the fader control to the center position.

EN

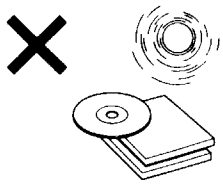
If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

Notes on CDs

A dirty or defective disc may cause sound dropouts during playback. To enjoy optimum sound, handle the disc as follows.
Handle the disc by its edge to keep the disc clean. Do not touch its surface.



Do not stick paper or tape on the labeled surface.



Do not expose discs to direct sunlight or hea sources such as hot air-ducts. Do not leave them in a car parked in direct sunlight wher there can be a considerable rise in the temperature inside the car.

Before playing, clean the discs with an optio cleaning cloth. Wipe each disc from the cent of the disc outward.
Do not use solvents such as benzine, thinner commercially available cleaners or antistatic spray intended for analog discs.

Notes on Moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the CD player. Should this occur, the unit wi not operate properly. In this case, remove th disc and wait for about an hour until the moisture has evaporated.

When you play 8 cm (3 in.) CDs

To use the optional Sony compact disc singl adapter (CSA-8) to protect the CD player fro damage.

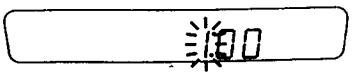
Setting the Clock

The clock has a 12-hour digital indication.

For example, setting it to 10:08

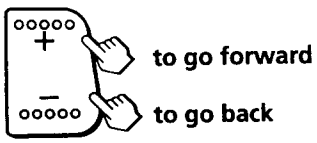
1 Display the time.
(Press the OFF or DSPL button during unit operation.)

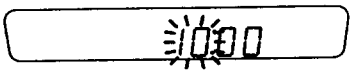
2 Press the DSPL button for more than two seconds.



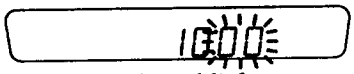
The hour digit(s) blinks.

Set the hour digits.



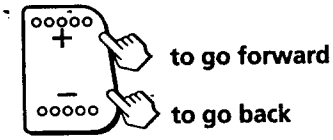


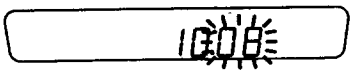
3 Press the SEL button momentarily.



The minute digits blink.

Set the minute digits.





4 Press the DSPL button momentarily.

The clock activates.

Note

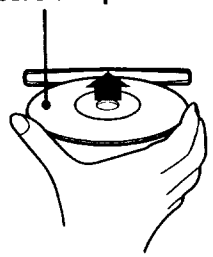
If the car has no accessary position on the ignition key switch, the clock cannot be set unless the power is turned on. Set the clock after you have turned on the radio, or during CD playback.

CD Player Operation

Playing a CD

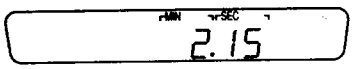
After inserting the CD, playback will start from the first track automatical

Label side up



If a CD is already inserted, press the button to start playback.

When the unit starts CD playback, th elapsed playing time will be displaye
To display the elapsed playing time and th track number alternately, press the DSPL button.



Elapsed playing time

When the last track on the CD is o
the track number indication will return to and playback will continue from the first t of the CD.

Note

To play a 8 cm (3 in.) CD, use the optional Sony com disc single adapter (CSA-8).

To stop playback,
eject the CD by pressing the ⏏ button press the OFF button.
Playback stops also when you select anoth source (radio) by pressing the FM/AM bu

Ejecting the CD

Press the ⏏ button.

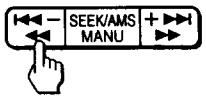
Note

If you leave the ejected disc in the disc insertion slot you have pressed the ⏏ button, the disc will automat retract into the unit after about 15 seconds in order t protect it.

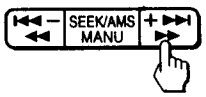
Locating the Beginnings of Tracks

— AMS (Automatic Music Sensor) Function

During playback, press either side of the SEEK/AMS/MANU button once for each track you wish to skip.



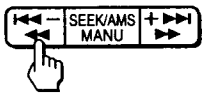
To locate previous tracks



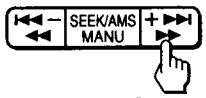
To locate succeeding tracks

Locating the Desired Part of a Track — Manual Search Function

During playback, press and hold either side of the SEEK/AMS/MANU button for more than two seconds. Release the button when you have found the desired part.



To reverse



To forward

If you reverse to the beginning of the disc, "_ _ " appears on the display. Forwarding to the end of the disc causes " _ _" to be displayed.
In either case, you can neither proceed to the previous nor the following track.

Searching for the Desired Track — Intro Scan Function

Press the INTRO 1 button during playback.
→ "INTRO" appears on the display.
The first 10 seconds of all the tracks are played. When you find the desired track, press the button once more. The unit returns to normal playback mode.

Playing Tracks Repeatedly

— Repeat Play Function

Press the REPEAT 2 button during playback.
→ "REPEAT" appears on the display.
When the currently played track is over, it will be played again from the beginning.
To cancel this mode, press the button again.

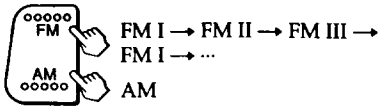
Playing Tracks in Random Order —Shuffle Play Function

Press the SHUF 3 button during playba
→ "SHUF" appears on the display.
All tracks on the currently selected disc are played in random order.

EN

Searching for Stations Automatically — Automatic Tuning

1 Select the desired band.

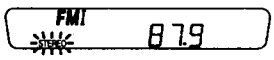


2 Press either side of the SEEK/AMS/MANU button once to search for the next station (automatic tuning).

For lower frequencies For higher frequencies

The scanning stops when a station is received. Press either side of the SEEK/AMS/MANU button repeatedly until the desired station is received.

When an FM stereo program with sufficient signal strength is tuned in,



the "STEREO" indication appears.

To keep the automatic tuning from stopping on stations too frequently (local seek mode), press the SENS button momentarily to get the "LOCAL" indication.

Only the stations with relatively strong signals will be tuned in. The local seek mode functions only when automatic tuning is in operation.

If FM Stereo Reception is Poor — Monaural Mode

Press the SENS button momentarily.
→ "MONO" appears on the display.
The sound will improve, but it will be monaural.

By pressing the SENS button, you can change the displayed items as follows:

→ LOCAL → MONO → Normal mode

Tuning in by Adjusting Frequency — Manual Tuning

1 Select the desired band.

2 Press and hold either side of the SE AMS/MANU button.
Release the button when the desired is received.

For lower frequencies For higher frec

PREVENT ACCIDENTS!
When tuning in during driving, use aut tuning.

Memorizing Stations Automatically

— Automatic Memory Function

Stations with the clearest reception are automatically searched and memorized each band (FM I, FM II, FM III and AM) 6 stations on each band can be stored or preset number buttons 1 to 6 in the orde band frequency.

1 Select the desired band.

2 Press the A.MEM button for more tha seconds.
The unit will be start scanning the selec band and memorize the tuned stations preset number button 1 through 6 automatically.

Memorizing Only the Desired Stations

1 Select the desired band (page 7).

2 Tune in the station which you wish to store on a preset number button.

3 Press and hold the desired preset number button (INTRO 1 to 6) for about two seconds until you hear a beep tone.

The number of the pressed preset number button appears in the display window.

Up to 6 stations on each band (FM I, FM II, FM III and AM) can be stored on the preset number buttons in the order of your choice. Therefore, 18 stations can be memorized on FM.
If you try to store another station on the same preset number button, the previously stored station will be erased.

EN

Receiving the Memorized Stations

1 Select the desired band (page 7).

2 Press momentarily the preset number button (INTRO 1 to 6) on which the desired station is stored.

Note
If you press the preset number button for more than two seconds, the currently received station will be memorized. To receive the previously memorized station, make sure that the preset number button is pressed only momentarily.

Adjusting the Sound Characteristics

1 Select the item you want to adjust by pressing the SEL button repeatedly.

VOL (volume) → BAS (bass) → TRE (treble) → BALANCE → FADER → VO (volume) → ···

2 Adjust the selected item by pressing either side of the +/– button.

Adjust within three seconds after selecting. (After three seconds the buttons will again serve as volume control buttons.)

Enjoying Bass and Treble at Low Volume

— Loudness Function

Press the LOUD button. → "LOUD" wi appear on the display.
The bass and treble will be boosted.
To cancel, press again.

Muting the Sound Quick

— Mute Function

Press the MUTE button. → The "MUTE indication flashes.
The sound is muted at once.
To restore the previous volume level, pres again.

This function will be also cancelled when:
— + side of the +/– or OFF button is pressed.
— ejecting a CD by pressing the ⏏ button during C playback.

Muting the Beep Tone

Press the [6] button while pressing the SEL button.
To reactivate the beep tone, press these buttons once more.

Note
When connecting an optional power amplifier to the LINE OUT, the beep tone is disabled.

Turning on the Clock Display — Power Select Function

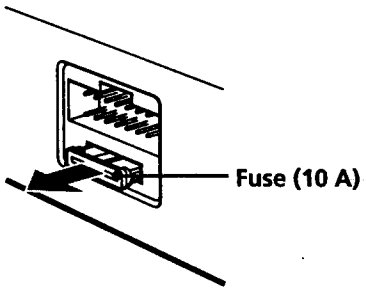
Only for cars with accessory position on the ignition key switch

To turn the Power Select Function on
Press the [OFF] button while pressing the SEL button.
To turn the accessory position ON or OFF, the clock will be displayed or not.
To avoid battery wear, the clock is not displayed when the unit is initialization.

Maintenance

Fuse Replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

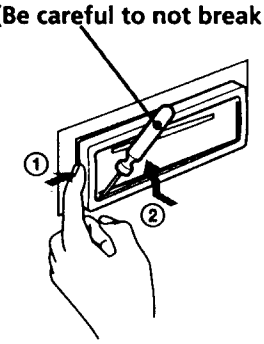


Warning
Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

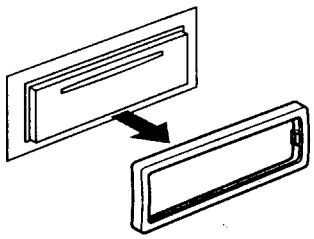
Dismounting the Unit

1 **While pushing in on the left side of tl front cover, insert the tip of a thin screwdriver as shown in the illustrati then pry off the front cover.**

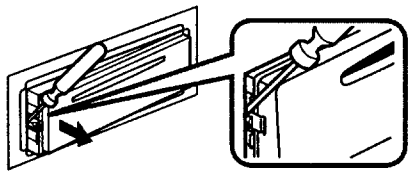
Thin screwdriver
(Be careful to not break the front cover.)



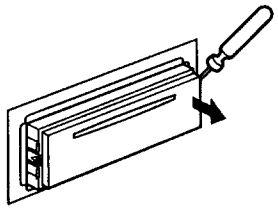
2 **Repeat step 1 on the right side. Then front cover will be removed.**



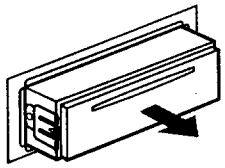
3 **Use a thin screwdriver to push in the on the left side of the unit, then pull the left side of the unit until the catc clears the mounting.**



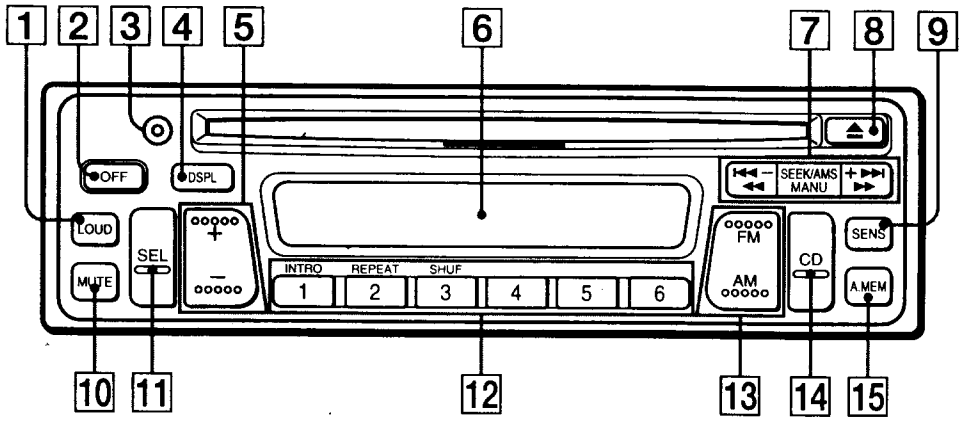
4 **Repeat step 3 on the right side.**



5 **Slide the unit out of the mounting.**



Location of Controls



EN

Refer to the pages in ● for details.

1 LOUD (loudness) button ❽

2 OFF button ❺❽❾

3 Reset button ❹

4 DSPL (display mode change/time set) button ❺

5 +/– (volume/bass/treble/balance/fader control) button ❺❽

6 Display window

7 SEEK/AMS/MANU (automatic tuning/ Automatic Music Sensor/manual search) button ❻❼

8 ⏏ (eject) button ❺❽

9 SENS (sensitivity adjust) button ❼

10 MUTE button ❽

11 SEL (control mode select) button ❺❽❾

12 During radio reception:
Preset number buttons ❽

During CD playback:

INTRO 1 INTRO (intro scan) button ❻

REPEAT 2 REPEAT (repeat play) buttor

SHUF 3 SHUF (shuffle play) button

13 FM/AM (radio on/band select) butto ❺❼

14 CD (CD play) button ❺

15 A.MEM (Automatic Memory functio button ❼

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
12 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other Specifications

CD player section

System	Compact disc digital audio system
Signal-to- noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 µW*

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	13 dBf
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	33 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	32 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

General

Output lead	Power antenna control/ Power amplifier control lead
Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 180 mm ($7\ ^1/_8 \times 2 \times 7\ ^1/_8$ in.) (w/h/d)
Mounting dimension	Approx. 183 × 53 × 159 mm ($7\ ^1/_4 \times 2\ ^1/_8 \times 6\ ^3/_8$ in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb 10 oz.)
Supplied accessories	Parts for installation and connections (1 set)
Optional accessories	RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m) Cleaning cloth XP-CD1 Compact disc single adaptor CSA-8

Design and specifications are subject to change without notice.

EN

Troubleshooting Guide

The following checklist will assist in the correction of most problems which you may encounter with your unit.
Before going through the checklist below, refer to the connection and operating procedures.

General

Problem	Cause/Solution
No sound	• Adjust the volume with + side of the +/– button. • Set the fader control to the center position for 2-speaker systems
The contents of the memory have been erased.	• The power cord or battery has been disconnected. • The reset button has been pressed. → Store stations into memory again.
Indications do not appear in the display window.	Press the reset button.
Antenna does not retract.	When the AMP/ANT REM lead is connected to the power antenna, the antenna will be extended as long as the unit is turned on.
No beep tone.	• An optional power amplifier is connected to the LINE OUT. • The beep tone is muted (page 9).

EN

CD playback

Problem	Cause/Solution
CD cannot be loaded.	• Another CD is already loaded. • The CD was forcibly inserted upside down.
Play does not begin.	Dusty disc.
CD is automatically ejected.	The ambient temperature is more than 50°C.
CD will not eject.	Press the ⏏ button for more than two seconds.
The operation buttons do not function.	Press the reset button.
The sound skips due to vibration.	• The unit is installed at an angle of more than 20°. • The unit is not installed in a sturdy part of the car.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorize the correct frequency. • The broadcast is too weak.
Automatic tuning is not possible.	The broadcast is too weak. → Use manual tuning.
The "STEREO" indication flashes.	• Tune in precisely. • The broadcast is too weak. → Press the SENS button to enter the MONO mode.

Error displays

The following indications will flash for about five seconds.

Display	Cause	Solution
E-04	CD is dirty or inserted upside down.	Clean or insert the CD correctly.
E-99	The CD player cannot be operated because of some problem.	Press the reset or ⏏ button.

If the above-mentioned solutions do not help to improve the situation, consult your nearest Sony dealer.